PETTIPIECE et al.
Application No.: 09/536,932
Page 2

PATENT

9   at least two turning mirrors; and

10   one polarizing beam splitter,

11   wherein said polarizing beam splitter preferentially reflects a first polarization and

12   preferentially transmits a second polarization;

13   a detector array, wherein said sample and said interferogram of said sample are imaged on

14   said detector array, wherein said detector array outputs a plurality of signals corresponding to an intensity at

15   each pixel of said array; and

16   a processor coupled to said detector array and coupled to a monitor, said processor displaying

17   an image of said sample on said monitor.

1   13.   The spectral imaging system of claim 12, wherein said polarizing beam splitter is a

2   polarizing cube.

1   23.   (New) The spectral imaging system of claim 12, wherein said first polarization is

2   perpendicular to a plane of incidence (s-polarization).

1   24.   (New) The spectral imaging system of claim 12 wherein said second polarization is

2   parallel to a plane of incidence (p-polarization).

1   25.   (New) The spectral imaging system of claim 12, wherein said at least two turning

2   mirrors are configured to turn independently.

1   26.   (New) The spectral imaging system of claim 12, wherein said at least two turning

2   mirrors are coated with a dielectric to minimize effects upon said first polarization and said second

3   polarization.

REMARKS

Upon entry of this amendment, which cancels claims 5-11, amends claim 12 and adds claims 23-26, claims 12-13 and 23-26 remain pending.

In response to a restriction requirement dated January 30, 2001, claims 12 and 13 (i.e., Group III) have been elected for continued prosecution in connection with the above-identified application and claims 5-11 have been cancelled. Applicants reserve the right to continue prosecution of claims 5-11 in a divisional application.

Claims 12 and 13 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over McNamara (U.S. Patent No. 5,539,517) in view of Cabib (U.S. Patent No. 5,539,517).